

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

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General Information

Name:	Western Kentucky University
Address:	One Big Red Way, Bowling Green, Kentucky 42101
Date application received:	December 11, 1996
SIC/Source description:	8221/ Universities
AFS(10-digit):	Plant ID: 21-227-00012
Application log number:	55967
Permit number:	F-03-001 Revision 1

Application Type/Permit Activity

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
_X_Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

Compliance Summary

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

Emissions Summary

Pollutant	Actual (tpy)	Potential (tpy)
PM10	4.91	8.68
SO ₂	85.45	128.8
NO _x	53.9	81.2
CO	56.18	94.89
VOC	3.24	5.23
PT	9.35	15.4

Source Process Description:

A final Federally Enforceable permit, No. F-03-001, for Indirect Heat Exchangers and a Spray Booth was issued to Western KY University on June 6, 2003 and will expire on June 6, 2008. An application for a major revision to the permit F-03-001 was received on August 26, 2003 for the removal and addition of natural gas boilers used to heat buildings on campus. There are now a total of 59 natural gas boilers of various sizes on campus as compared with 43 natural gas boilers when the original permit application was submitted in 1996. There are fifty-one (51) boilers listed as significant emission units in the revised permit F-03-001 R1. Twenty (20) boilers have been removed and 36 boilers have been added. The applicant proposes to operate sixty-one (61) indirect heat exchangers. These heat exchangers consist of 2 coal-fired units (46.6 mmBtu/hr and 50.5 mmBtu/hr), and 59 natural gas fired units (6 with a combined rating of 18.96 mmBtu/hr, 2 unit each for 72.8 mmBtu/hr, 7 units with a combined rating of 22.15 mmBtu/hr, 33 units with combined rating of 72.77 mmBtu/hr, and 1 unit with a 20 mmBtu/hr rating), and 10<1 mmBtu/hr boilers. No changes have been made to the existing paint spray booth. The source has agreed to take federally enforceable limitations to preclude applicability of 401 KAR 52:020. The source will limit its annual tons of coal burned at Emission Points 01 and 02 to 5600 tons, and will set a source-wide cap of 750,000,000 cubic feet of natural gas burned in all its boilers.